

What is claimed is:

1.

An extrusion attachment for sausage making machines, comprising,  
an inner hollow elongated restrictor tube having an intake  
and a discharge end, and having a fixed diameter,  
an inlet coupling secured to the intake end of said  
restrictor tube and having a bore therein of a greater  
diameter than the fixed diameter of said restrictor tube  
and being in communication therewith,  
an outlet port coupling on the discharge end of said  
restrictor tube and having a bore therein with a  
diameter greater than the diameter of said restrictor  
tube,  
a second tube concentrically mounted around said restrictor  
tube and having an inner diameter spaced from an outer  
diameter of said restrictor tube to create a first  
passageway therebetween,  
a third tube concentrically mounted around said second tube  
and having an inner diameter spaced from the outer  
diameter of said second tube to create a second  
passageway therebetween,  
said inlet coupling and said second tube being connectable to  
a source of meat emulsion under pressure,  
said first passageway being of sufficient size that meat  
emulsion moving therein will maintain a meat emulsion  
pressure substantially the same as the pressure from  
said meat emulsion source,  
said second passageway having a narrowed discharge channel  
surrounding the discharge end of said restrictor tube  
whereby meat emulsion exiting the second passageway will  
provide a thin layer of meat emulsion around the surface  
of meat emulsion exiting said restrictor tube,  
said third passageway being connectable to a source of  
collagen material under pressure and having a narrowed  
discharge channel adjacent said outlet port coupling to  
deposit a collagen material layer around the meat

emulsion discharged by said restrictor tube and said second tube.

2.

The device of claim 1 wherein said inlet coupling and said second tube are connectable to the same source of meat under pressure.

3.

The device of claim 1 wherein said inlet coupling and said second tube are connectable to a different source of meat under pressure.

4.

The device of claim 1 wherein a shearing edge is located adjacent the discharge channel on said second passageway to facilitate the compression of meat particles in meat emulsion passing through said channel.

5.

The device of claim 1 wherein tube stabilizer elements are located around said restrictor tube and engaging the inner diameter of the second tube to support said restrictor tube within said second tube and to maintain the restrictor tube and said second tube in concentric relationship.

6.

A method of manufacturing a sausage product comprising, extruding a strand of meat emulsion through an elongated restrictor tube at a high first pressure, coextruding a first layer of meat emulsion through a second tube at a lower second pressure which is lower than said first pressure, with said second tube being concentrically positioned and in a spaced position with respect to said restrictor tube so that said first layer is deposited on said strand of meat emulsion.

7.

The method of claim 6 wherein said first layer is deposited on said sausage strand in a common space wherein the first layer and the sausage strand are subjected to a lower pressure than said high first pressure, wherein the material in said sausage strand can expand within said space.

8.

The method of claim 6 wherein a collagen material layer is deposited on said first layer.

9.

The method of claim 6 wherein meat particles in said first layer are compressed before said first layer is deposited on said strand.

10.

The method of claim 6 wherein said first pressure is approximately 200 psi and said second pressure is approximately 60 psi.

11.

The method of claim 6 wherein said first pressure is at least double that of said second pressure.

12.

The method of claim 6 wherein said first pressure is at least triple that of said second pressure.